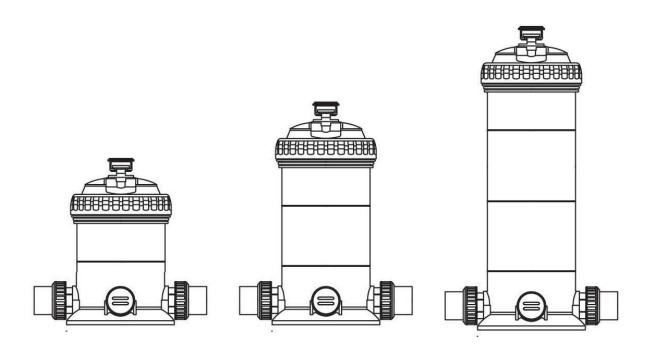


CARTRIDGE FILTER OWNER 'S MANUAL



The installation of this product should be carried out by a person knowledgeable in swimming pool plumbing requirements, following the installation instructions provided in this manual. Please pass these instructions on to the owner of this equipment.

CARTRIDGE FILTER

Congratulation on your purchase of a quality product from the range of pool and spa equipment available from pool systems. You are assured of many years of reliable and efficient performance from your filter backed by a 2-year tank warranty.

Cartridge filters have been specifically designed for the filtration of spa and swimming pool water. They should not be used for any other purpose without first consulting your dealer or pool systems.

Cartridge filters provide economy, high performance and convenience in a well-designed pressure filter. The polyester element can be removed quickly for rinse cleaning without water loss.

Cartridge filters feature large filter areas, which Ensure even water distribution, peak filtration performance and longer filter cycles. The corrosion-resistant construction of cartridge filters provides long life and durability.

Cartridge filters are capacity matched with the range of pool and spa pumps available from pool systems, forming a total pool filtration system built to last. Take care to match the pump and filter capacities to gain maximum performance and efficiency

THE SPARKLING CLEAR WATER DIFFERENCE

Cartridge filtration is n effective trouble-fee proven method of filtration. pool water enters the filter and passes through a polyester single element cartridge. Suspended particles are trapped and the water is returned to the pool. As the build-up of dirt in the element increases, so the water pressure rises and the flow decreases. When the pressure reaches an unacceptable level, the element must be removed and cleaned(spray washing with a common garden hose is generally sufficient)

INSTALLATION AND OPERATION INSTRUCTIONS

LOCTATION

The filter should be placed in its permanent location, preferably as close to the pool or spa as practicable. Position the filter tank and pump on a level concrete slab or similar base. Allow sufficient space around the filter for routine maintenance and provide for adequate ventilation and drainage. Place the pump in position on the slab and locate the filter alongside with the appropriate pump inlet connection orientated towards the pump. Refer to the 'Specifications' section for the minimum clearance measurements required for each model.

WEATHER PROTECTION

Cartridge filter are constructed of corrosion resistant materials. However, to ensure years of reliable performance, it is recommended that the filtration system be adequately protected from the weather.

ASSEMBLY

Assemble the pressure gauge to the filter lid using teflon tape on the male thread. Do not over tighten.

PIPE CONNECTIONS

Piping should be supported independently and not impose heavy loads on the filter or pump. Use 40mm or 50mm PVC pipe for pump and pool return lines. 50mm should always be used if length of piping is over 15mm. Cartridge filters are supplied with quick connect couplings suitable for 40mm L.D. PVC pipe or 50mm O.D fittings.

if the pump and filter are located below poo! water level, it is necessary to fit isolating valves in the pipe between the pump and the pool, and in the return line from the filter to the pool.

1) Pump to filter

Cartridge filters are equipped with two inlet ports marked 'INLET'. select the inlet port most suitable for the installation the other inlet port with blanking cap provided. Using quick connect couplings, connect the pool pump piping to the selected inlet port couplings, connect the pool pump delivery piping to the selected inlet port. Tighten by hand only. Ensure the o' ring lubricant and in the correct position.

2) Filter to pool return

Using quick connect couplings, connect the pool return piing to the filter fitting marked 'OUTLET'. tighten the fitting by hand only. Ensure the o' ring on the fitting is clean, lubricated with o' ring lubricant and in the correct position. The filter base is provided with four mounting holes to enable it to be secured, if required.

FILTER OPERATION

- 1) Make sure the pump is primed according to manufacture's directions.
- 2) Be sure all valves are open on suction and discharge lines. Ensure the air bleed valve on the filter lid is open and the lid lock ring is in place and secure.
- 3) Start the pump. Close the air bleed valve when water is expelled.
- 4) To determine the correct operating conditions with a clean filter, check that the pressure gauge reading is 80kpa or below
- 5)Record the pressure gauge reading or mark the needle position on the face of the pressure gauge
- 6) Operate the filter for a sufficient time to circulate the total pool water volume daily. The filter should also be operated at all time pool is in use and for about one hour afterwards. During winter, the running time may be reduced. Filter operating requirements will vary for spa applications. Depending up on the system design, type and size of spa. Consult your builder or spa supplier.
- 7) When the pressure gauge reading is 50-75kpa higher than the 'clean filter* reading as in (4) above, it is time to the cartridge element (see Cartridge Cleaning Procedure).

CARTRIDGE CLEANING PROCEDURE

When the filter gauge reading is 50-70kpa above the clean filter gauge reading cleaning the single element cartridge is required. To perform the cleaning procedures -

- 1) Switch off the pump.
- 2) Close isolating valves on suction and discharge lines where fitted.
- 3) Open the air bleed valve on the filter lid. unscrew the lock ring and remove the filter lid
- 4) Lift out the cartridge element.
- 5) In most cases the element can be easily cleaned with a garden hose, using good velocity sprayed directly on the pleats.

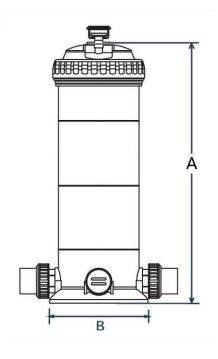
NOTE

Algae, calcium, clay, suntan oil and body oils can form a coating on the element which may not be easily removed with normal hosing These materials can be removed by soaking the element in a de-greaser and / or descaler. Your local dealer will be able to recommend suitable products

CARTRIDGE RE-ASSEMBLY INSTRUCTION

- 1) Install the cartridge/s and center pipe so that it is located in the bottom spigot.
- 2) Ensure the filter lid o'ring is clean, lubricated with o'ring lubricant and located in the bottom groove.
- 3) Replace the lid and press firmly in place Screw down the lock ring, hand tight is sufficient-DO NOT OVER TIGHTEN.
- 4) Make sure the pump is primed according to manufacture's directions.
- 5) Ensure all valves are open on suction and discharge lines.
- 6) Start the pump.
- 7) Close the air bleed valve when all air has been expelled.

SPECIFICATIONS

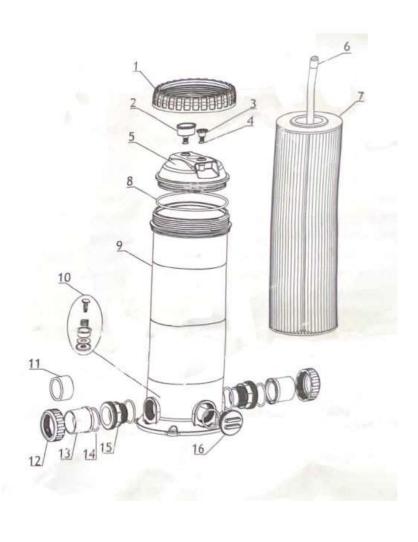


DIMENSION TABLE

MODEL	A Diameter (mm)	B Diameter (mm)
025	368.3	225
050	548.3	225
075	728.3	225
100	908.3	225
150	1088.3	225
200	1268.3	225

WORKING PROCESS

1 02-2101 Ring lock 1 2 01-0127 Pressure gauge 1 3 02-2102 Air relesse valve 1 4 01-0126 O;ring 2 5 02-2103 Cartridge filter lid 1 02-2105-1 4" pvc air vente pipe #25 1 02-2105-2 4" pvc air vente pipe #50 1 02-2105-3 4" pvc air vente pipe #75 1 02-2105-4 4" pvc air vente pipe #100 1 02-2105-5 4" pvc air vente pipe #100 1 02-2105-6 4" pvc air vente pipe #200 1 02-2106-1 Cartridge element #25 1 02-2106-2 Cartridge element #50 1 02-2106-3 Cartridge element #75 1 02-2106-3 Cartridge element #100 1 02-2106-4 Cartridge element #150 1 02-2106-5 Cartridge element #200 1 8 02-2107 O'ring for lid 1 9 02-21-2 Straight pvc.pipe #25 1 02-21-3 Straight pvc.pipe #150 1 </th <th>ID</th> <th>CODE</th> <th>DESCRIPTION</th> <th>QTY</th>	ID	CODE	DESCRIPTION	QTY
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15 02-0208 Bulkhead fitting 2	13	01-0209	Adaptor	1
-	14	02-0207	O'ring	5
16 02-2114 Plug 1	15	02-0208	Bulkhead fitting	2
	16	02-2114	Plug	1



WARNING



This filter operates under high pressure. When any part of the circulating system (e.g., clamp, pump, filter, valves. etc.) is serviced, air can enter the System and become pressurized. Pressurized air can cause the lid or valve to Be blown off which can result in severe injury, death, or property damage.



A Turn pump off before changing the valve position.



A To prevent damage to the pump and ifor proper operation of the system, Clean pup strainer and skimmer ba regularly.